

# STEM TEACH SUMMER WORKSHOP

## ADVANCED CRAFTING, CODING & CIRCUITRY

This workshop will build on the fundamental concepts developed in the Basic Coding, Crafting, and Circuitry workshop. The course is designed for K-8 In-service teachers who want to expand their practice of integrating more engaging, hands-on engineering principles & projects in their classroom. Teachers will apply the engineering design process to create classroom units through engineering and making technologies. Projects will range from constructing interactive physical computing devices with the micro:bit to building a Bluetooth-enabled robot to constructing mechanical cardboard contraptions. Previous STEM experience is recommended and/or attendance in the Basic Crafting, Coding, & Circuitry workshop or EDUC 597 Teacher Engineering Education Course.



**Workshop presenters:** John Somers (UIndy), Mary Rinehart & Kim Brand (1st Maker Space)

**Dates:** June 28 - July 2, 2021

**Time:** 9 am - 4 pm

**Where:** Online via ZOOM; Instructors will be interacting with participants

### Why?

- Cultivate a maker mindset, connect with colleagues & create through play.
- Engage students in purposeful making, tinkering, and inventing.
- Build future-ready students.

### How?

- Most class materials will be shipped to your door.
- Lesson plans & innovative strategies will be shared with you.
- Open office hours will support your weekly implementation of activities.

### How to Become Eligible

Teachers must apply and be accepted to the STEM Teach program before they can register for this workshop. Apply at <https://stemteachindiana.org/apply/> by May 7, 2021 to be eligible to register.

After accepted to the STEM Teach program, teachers can register for this workshop through the STEM Teach Online Teacher Portal. Teachers receive instructions prior to registration dates.

### Questions?

Email Christel Cater at [caterc@uindy.edu](mailto:caterc@uindy.edu) if you have application or registration questions.